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### The Topographic Supplementary Maps

**Germany**  
The 1:5,000 Basic Map and the Cadastral Survey Map

The most recent of the original maps is the 1:5,000 German Basic Map. In contrast to all other official maps, this one is not bounded by the lines of the topographic grid, but by lines of the Gauss-Krueger coordinate grid (quadriangular). The individual sheets are quadrilateral grid maps and available in sizes of 2 x 2 kilometers.

The efforts to produce a uniform 1:5,000 map of North Germany go back a good many years. As early as 1851 it was recommended that a large-scale topographic map be selected after those of the South German Länder be prepared for Prussia also. Later the recommendation was repeated several times by various offices, but it was not until 1899-1903 that the Surveying Council directed the first sample sheet and the legend for the 1:5,000 German Basic Map. But even then the latter did not make any considerable progress. It was not until 1906 and later that the Survey Commission in Dusseldorf developed 1:5,000 maps (without contour lines) from the cadastral maps. No sheets were drafted in the framework of the German Basic Map, and later (to distinguish this map from the latter) were given the designation Cadastral Survey Map. In 1907, after very thorough revision, the still valid sample sheet and the legend for the German Basic Map and the Cadastral Survey Map appeared. Then in ~~1920~~ 1941, the Reich Ministry of the Interior called special attention to this new map and called for a systematic production. It is becoming increasingly important for planning operations of all sorts.

This map is still in the process of development and is going through various development stages. First, 1:5,000 maps will be produced by the Land-Survey Offices or the Survey Administrations of the district governments, on the basis of the cadastral maps which they have available and any other still usable sketches. These sheets will be given the designation Cadastral Survey Map. They will in general be reproduced only in blue-print form for transmission to other offices. After thorough revision from the topographic standpoint, they will be given the designation German Basic Map.

(Basic Draft). As such, it will be printed. Not until after ~~this~~ it has been supplemented by a new survey of elevations will it finally attain the form in which it will be ~~revised~~ issued as the "German Basic Map."

In Nordrhein-Westfalen ~~this~~ will include about 8,000 sheets. By 1 January 1951 the following had been completed:

a. German Basic Map with Contour Lines	17 sheets
b. German Basic Map (Basic Draft)	800 sheets
c. Cadastral Survey Map	800 sheets
Total	1,119 sheets.

The following were engaged in surveys or the status of work on the German Basic Map, as of 1 April 1950:

- 1. General Survey of Land Nordrhein-Westfalen, 1:300,000
- 2. Separate Surveys of Administrative Districts Aachen, Dusseldorf, and Duesseldorf, 1:200,000.

Since the cadastral maps in Nordrhein-Westfalen do not have a uniform grid structure, and most of them are very old and incomplete, especially when regard to the depicting of buildings, the production of the new map has been greatly impeded; on the other hand, the new map is all the more important for this reason.

#### The 1:25,000 Topographic Map

Currently the 1:25,000 Topographic Maps will form the most important basis for the most varied planning projects, and also the basis for the correction of all subsequent scales. The individual sheets are degree-boundary sheets, that is, they are bounded by ~~this~~ meridians and parallels of latitude. Each map sheet consists of a spheroid trapezoid representing 10° of geographical longitude and 6° of geographical latitude. The geographical values are given on the margin of the sheet, and now refer to the Greenwich meridian. For our latitude, one sheet represents a surface area of about 11.5 x 11.2 kilometers, or 125 square kilometers.

This spheroid trapezoid is transferred to the plane surface according to the Prussian polyhedral projection, using the Bessel terrestrial ellipsoid

as the surface of reference. Each sheet in a projection unit, and the meridians and the parallels of latitude are depicted in their true lengths as straight lines. For each individual sheet, this method of representation may be regarded as giving true length, true angles, and true size. All the sheets together could represent the ~~whole~~ surface of a polyhedron.

Subsequently, in accordance with a decision of the Survey Council in 1901, the Gauss-Krueger grid was drawn in on the individual sheets. Now, when individual sheets of this map are revised, the plane, true-angle, transverse cylindrical projection according to Gauss-Krueger is made the basis of the re-orientation.

A 61 sheet is denoted by a number and the name of the sheet. The number has significance for the outline form of the Section Register. All sheets in the Nordrhein-Westfalen region have a number consisting of four digits. The first two digits indicate the zone, increasing from north to south. The last two digits indicate the vertical column, and therefore from east to west.

All sheets of this map were originally engraved on 1100 gray copper and engraved in a one-color edition. Later some of the electrotypes engraved on copper and painted in a three-color edition.

Shortly before the beginning of the last war, chalk prints were made from the original stones on copper plates. Today, these chalk prints on aluminum represent the originals, and work is being continued on them. After the collapse, there were a number of sheets for which no such chalk prints were available. New originals, suitable for continuing work, will have to be made for 32 sheets. The Nordrhein-Westfalen Land Survey Office has to process 384 sheets of this map. Two of these exist in a three-color edition, with black basic outline, brown contour lines, and blue water; for the other sheets, there are only one-color prints.

At the instigation of the Land Planning Office, all sheets in the future which have been corrected in detail will show ~~the~~ administrative boundaries in green. So far, there are six sheets in this edition. ~~xxx~~ Some of the individual sheets in this map series are very old and should be thoroughly revised. For example, ~~xxxx~~ 57 of the sheets have not had a thorough revision for more than

40 years. However, this very comprehensive work cannot be done except on a long-term basis.

As soon as the 1:5,000 German Basic Map is completed, a number of sheets will have to be revised gradually for the three-color edition, using the new map as a basis.

#### The 1:50,000 German Map

The initial impetus for the creation of a modern 1:50,000 map came from the southern Laender, and ~~xxx~~ in 1923 the Survey Council declared that this was the job of the individual Laender. A decree of the Reich Ministry of the Interior of 31 May 1936 designated this map as a national map, and therefore a job for the former Reich Office for Land Survey. The southern Laender, especially Bavaria and Wurttemberg, have already completed a number of sheets for this map and are now working on it again.

In the former Prussian territory the work on this map proceeded very slowly. At the outbreak of the last war, several sheets were in progress/~~xx~~  
~~xxx~~ is now Land Nordrhein-Westfalen. The work was interrupted at the beginning of the war, so that no sheet of this region was actually completed. The lack of such a map has already led to the result that some offices have tried to help themselves out and have drafted maps of their own regions/which differ in sheet size and legend.

In agreement with the other Land Survey Offices in the Federal Republic, it has been decided that the map with the official legend and sheet size will first be produced for those areas where there is an urgent necessity for it.

The individual sheets are degree-boundary sheets ~~xxx~~ covering 30' of geographical longitude and 15' of geographical latitude; i.e., the same area as the individual sheets of the 1:100,000 map; they also use the same numbering and names as the latter.

At the former Reich Office for Land Survey the sheets were drawn on a scale of 1:25,000 and were then reduced in size and transferred galvanically to copper plates. Of the 43 sheets/which encompass the area of Nordrhein-Westfalen, only sheet No. 457, Bonn, has so far appeared.

This map is especially needed for the Ruhr region. The Ruhr Settlement

Union is giving widespread support to this work. Two of the sheets for this region are already being worked on. The sheets which have so far been prepared by the Ruhr Settlement ~~Area~~ Union in a different format will later be incorporated into the framework of the official map.

~~has appeared in~~  
Sheet No. 457, Bonn/~~1~~<sup>2</sup> a three-color edition (basic ~~area~~, water, contour lines) and in a four-color edition (with forest in green). The sample sheet of 1937 was the basis for its preparation.

#### The 1:100,000 Map of the German Reich

In an agreement of 4 March 1928 the German states of Bavaria, Prussia, Baden, and Württemberg undertook the preparation of a 1:100,000 map according to uniform specifications, distributing the cost among them.

During a period of about 30 years, this entire map was prepared, at first from scratch. The last sheet was dated in 1940. This was the only map which did justice for the entire area of the former Reich. This map of the entire Reich was a ~~success~~ intended to meet a variety of map users, and was fully adapted to meet the needs of many different purposes.

Like the 1:100,000 Topographic Map, the 1:100,000 map uses the Ptolemaic polyhedral projection with the Berlin International Ellipsoid as reference. Each sheet is a trapezoid ~~which~~ since passing 15° of latitude and 30° of longitude. All four edges are represented by straight lines. Thus for the north and south borders, the parallels of latitude ~~are~~ are represented by their chords. The curvature of the parallels was taken into account in entering the map content.

The Gauss-Krueger coordinates were later added. The content of this map is extremely comprehensive for the scale, and is very well coordinated. The road network linking the towns is completely represented. The representation of the towns shows clearly the distinction between compact ~~and~~ built-up areas and ~~more~~ open areas.

Administrative boundaries are given only down to the level of Kreis.

Originally this map was prepared in only one color and was engraved on copper. Elevations are shown by hatching according to the Lehmann-Lueffling

method, with vertical illustrations. This would be in areas where there are many isolines; the map is generally covered with long isolines.

a three-color edition, colored for several of the sheets (424 & C.R.B.), with black roads <sup>and</sup>, towns, settlements, and the like. You wouldn't be able to do it if it were not possible to do it on this edition after 1930.  
of  
The topographic map (Edition C) of the 424 is dated at the beginning of the period of the first (four sheets printed together) were in general use, and still are today.

It would be recommended at this very early date to have one point in only one sheet of the original paper, which was available. The preparation of this map by the Royal Survey Office is very difficult to begin now, the complete edition has not yet begun, and the individual publications for the individual parts should be made on an isolated basis.

The Royal Canadian Land Survey Office has to ~~recommend~~ determine for themselves which of their maps or "sheet" sheets can be made available in the provincial edition: edition No. 424. It has not been possible to undertake the re-publication of the individual sheets. Sheet No. 424, Biogor, has been newly prepared as a single sheet, in a three-color edition with contour lines. The old basic <sup>map</sup> has not been in use. After several single sheets have been available in different forms, the West German Laender will have to decide in what way the map should be brought up to date.

The 1:200,000 Topographic Survey Map

by

This map dates from 1900 and was drawn ~~recommend~~ conical projection according to ~~standard~~ de l'Isle, which gives true average distances, using  $50^{\circ}$  East Longitude and  $35^{\circ}$  North Latitude as the intersecting parallels. In contrast to the cylindrical projection, when a number of these sheets are joined together, gaps appear.

This map appeared in two editions:

Edition C, in three colors (basic <sup>water</sup> in black, water in blue, terrain in brown contour lines)

Edition D, a special morphological edition, with water in blue and terrain in brown contour lines.

All the sheets were engraved on copper. Since the copper plates are no longer available, a reprint is not possible at present.

There are 17 sheets for Nordrhein-Westfalen. Prints can still be ~~done~~<sup>done</sup> one-color of individual sheets. In urgent cases, photo copies can be made of individual sheets.

#### 1:200,000 Survey Map

This map appeared after 1907 as a degree-boundary map drafted in the transverse polyhedral projection.

The individual sheets were printed in a five-color edition. The Nordrhein-Westfalen Land Survey Office has so far reprinted only sheet N 82, Dusseldorf, in a provisional edition. The automobile and transportation maps which were based on this map have not yet been reprinted, and are not essential because of the printing of good maps by private institutions.

On the other hand, it became necessary to produce a survey map of Nordrhein-Westfalen. The first two-color edition of 1947 ~~is~~ has been revised.

The present survey map appears in two editions:

1. A three-color edition (basic ~~plan~~ in black, water in blue, political boundaries in green)
2. A six-color edition (basic ~~plan~~ in black, water in blue, terrain in grey, forest in green, roads in red, boundaries in orange)

#### The 1:500,000 Survey Map of Nordrhein-Westfalen

This map is to close the gap between the topographic maps and the geographic maps. The present five-color edition of this map represents only a partial solution. Later on, terrain is to be/represented by color distinctions for elevation, as in the 1:1,000,000 International World Map.

#### Other Maps

The official maps, because of their uniform legends and the fact that they adjoin one another without gaps, are well suited for the preparation of special maps of all kinds on the same or other scales.

approximately 100,000 composite prints can be produced from the basic map which  
on a scale of 1:10,000 composite prints on a scale of 1:5,000 can be produced  
from the 1:5,000 German Basic Map, or on a scale of 1:10,000 from the reduced  
basic map, for a great variety of purposes, particularly as a basis for the  
plans under the Law for Reconstruction. For basic maps which do not have con-  
tour lines, the contour lines can be taken from the enlarged plane table sheets.

All sheets of the 1:25,000 Topographic Map are available in quarter sheets  
(northwest, northeast, southwest, and southeast) enlarged to 1:10,000. Prints  
of the 1:10,000 sheets can be had in these enlargements, blueprints of the West-  
wall sheets.

Composite prints 1:25,000 are being prepared on order as environment  
maps of cities.

For several cities there are cadastral maps on a scale of 1:50,000 available;  
for others, on a scale of 1:100,000. Survey maps with administrative bound-  
aries in green are available on a scale of 1:100,000 for the administrative  
districts of Aachen, Dusseldorf, and Cologne, and on a scale of 1:50,000 for  
the administrative districts of Arnsberg, Detmold, and Münster.